



Virginia Department of
Emergency Management

9-1-1 and Geospatial Services (NGS) Bureau Webinar

Meeting Date: January 6, 2021

Agenda

- Welcome
- NGS Bureau Initiatives
- E-911 Border Response Workgroup
- Division Updates
- Virginia Base Mapping Program
- Statewide NG9-1-1 Deployment
- Upcoming Meetings
- Open Discussion
- Adjourn



NGS Bureau Webinar Series

- The purpose of these webinars is to update Virginia's 9-1-1 and GIS communities on the Bureau's programmatic initiatives, activities of the 9-1-1 Services and VGIN Advisory Boards, and new community/industry developments
- Help foster our new relationship with Emergency Management and provide an expanded multi-disciplinary approach to serve ALL Virginia citizens in times of emergencies and disasters



Webinar Dates

- January 6th
- February 24th
- April 28th
- June 23rd
- August 25th
- October 27th



VDEM Strategic Roadmap

- Integrate equity into all agency programs and prioritize delivery of services to most at-risk populations
- Creatively enhance agency capacity
- Grow and promote an inclusive collaborative, and diverse environment
- Ensure a trained and ready team
- Strengthen and create new partnerships



Agency Outcome

- NG9-1-1 statewide deployment project has agency-wide visibility and support
- Increase data and information sharing with NG9-1-1 technology



NGS Bureau Initiatives

- Improve accessibility to 9-1-1 services and the availability of information about the 9-1-1 ecosystem
- Identify future information services for NG9-1-1 ecosystem
- Identify processes and resources to ensure continuity of VGIN stakeholder deliverables and geospatial services while meeting emergency activation requirements



NGS Bureau Initiatives

- Advance enterprise practices and planning in GIS management
- Develop holistic approach to telecommunicator training
- Integrate support for NG9-1-1 across internal and external stakeholders
- Upgrade the VA GIS Clearinghouse



E-911 Border Response WG

- A budget amendment (Item 391 #1h) from the 2020 Special Session of the Virginia General Assembly directs the following:

The Secretary of Public Safety and Homeland Security shall establish an E-911 Border Response Workgroup. The Workgroup shall assess the deficiencies related to the timely routing of 911 calls to the appropriate public-safety answering point (PSAP) across either state or county borders. At a minimum, the workgroup should work with stakeholders to collect information on problems with the current system and processes; review mitigation solutions already implemented by localities and citizen groups; determine best practices; and provide inputs and recommendations to the General Assembly on technology, training, and compensation that would be necessary to address the identified deficiencies. The Secretary shall provide the recommendations of the Workgroup to the Governor and General Assembly no later than April 1, 2021.



Public Safety Communications (PSC)

- RE-positioned PSC Division within NGS Bureau
- Public Safety Communications Coordinator Position

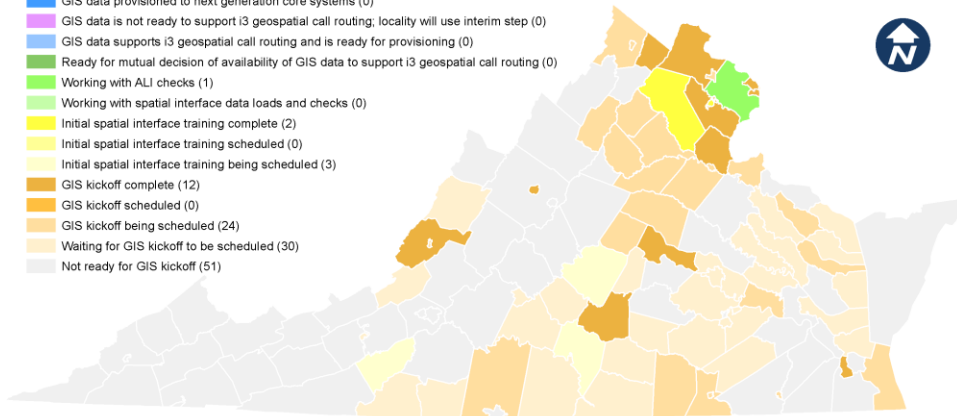


Virginia Next Generation 9-1-1 GIS Onboarding Status

9-1-1 & Geospatial Services Bureau

Status 1/1/2020

- PSAP cut over to i3 NG9-1-1 system using geospatial call routing (0)
- GIS data provisioned to next generation core systems (0)
- GIS data is not ready to support i3 geospatial call routing; locality will use interim step (0)
- GIS data supports i3 geospatial call routing and is ready for provisioning (0)
- Ready for mutual decision of availability of GIS data to support i3 geospatial call routing (0)
- Working with ALI checks (1)
- Working with spatial interface data loads and checks (0)
- Initial spatial interface training complete (2)
- Initial spatial interface training scheduled (0)
- Initial spatial interface training being scheduled (3)
- GIS kickoff complete (12)
- GIS kickoff scheduled (0)
- GIS kickoff being scheduled (24)
- Waiting for GIS kickoff to be scheduled (30)
- Not ready for GIS kickoff (51)



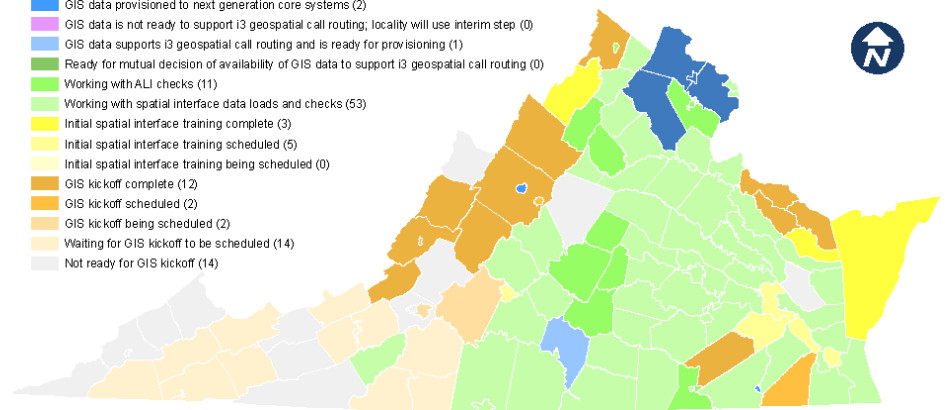
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Virginia Next Generation 9-1-1 GIS Onboarding Status

9-1-1 & Geospatial Services Bureau

Status 12/18/2020

- PSAP cut over to i3 NG9-1-1 system using geospatial call routing (4)
- GIS data provisioned to next generation core systems (2)
- GIS data is not ready to support i3 geospatial call routing; locality will use interim step (0)
- GIS data supports i3 geospatial call routing and is ready for provisioning (1)
- Ready for mutual decision of availability of GIS data to support i3 geospatial call routing (0)
- Working with ALI checks (11)
- Working with spatial interface data loads and checks (53)
- Initial spatial interface training complete (3)
- Initial spatial interface training scheduled (5)
- Initial spatial interface training being scheduled (0)
- GIS kickoff complete (12)
- GIS kickoff scheduled (2)
- GIS kickoff being scheduled (2)
- Waiting for GIS kickoff to be scheduled (14)
- Not ready for GIS kickoff (14)



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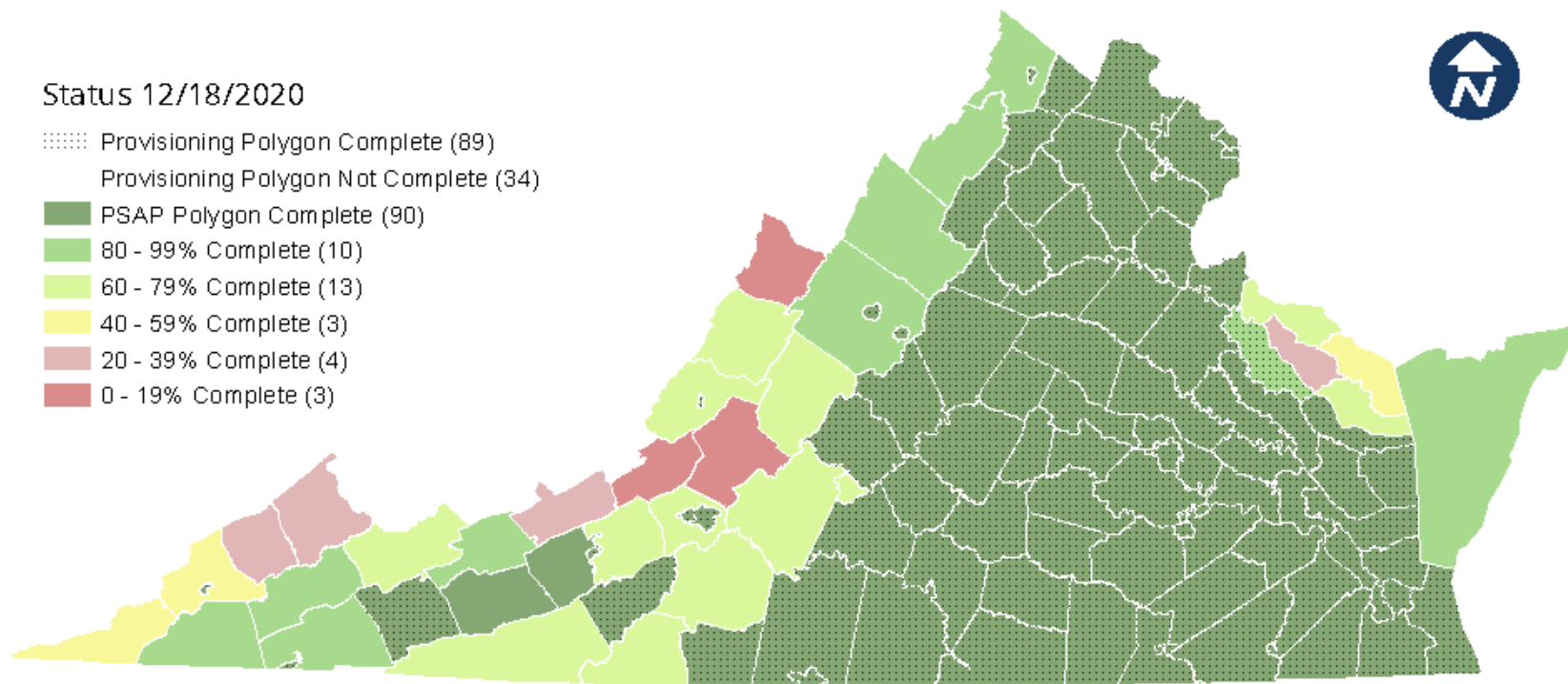


Virginia Next Generation 9-1-1 Boundary Status

9-1-1 & Geospatial Services Bureau

Status 12/18/2020

- Provisioning Polygon Complete (89)
- Provisioning Polygon Not Complete (34)
- PSAP Polygon Complete (90)
- 80 - 99% Complete (10)
- 60 - 79% Complete (13)
- 40 - 59% Complete (3)
- 20 - 39% Complete (4)
- 0 - 19% Complete (3)



98%	74%	73%	87%	85%
119 of 121 PSAPs have a PSAP segment complete	90 of 121 locality PSAP boundaries are complete	89 of 122 locality provisioning boundaries are complete	348 of 399 total PSAP segments are complete	337 of 398 total provisioning segments are complete

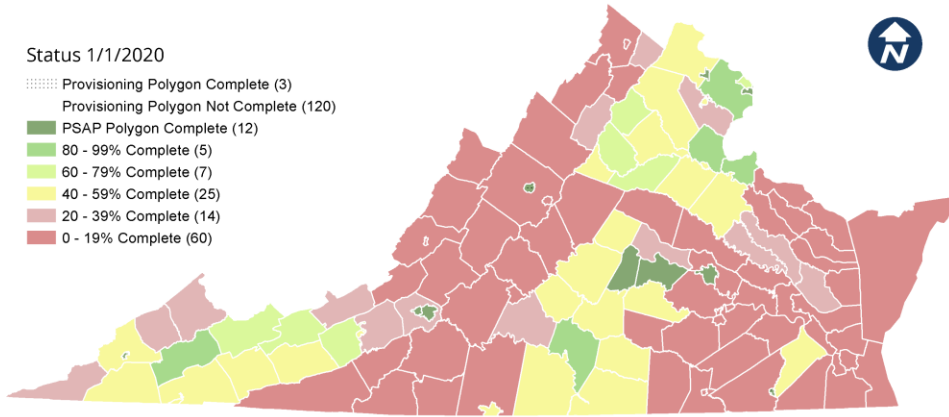


Virginia Next Generation 9-1-1 Boundary Status

9-1-1 & Geospatial Services Bureau

Status 1/1/2020

- Provisioning Polygon Complete (3)
- Provisioning Polygon Not Complete (120)
- PSAP Polygon Complete (12)
- 80 - 99% Complete (5)
- 60 - 79% Complete (7)
- 40 - 59% Complete (25)
- 20 - 39% Complete (14)
- 0 - 19% Complete (60)



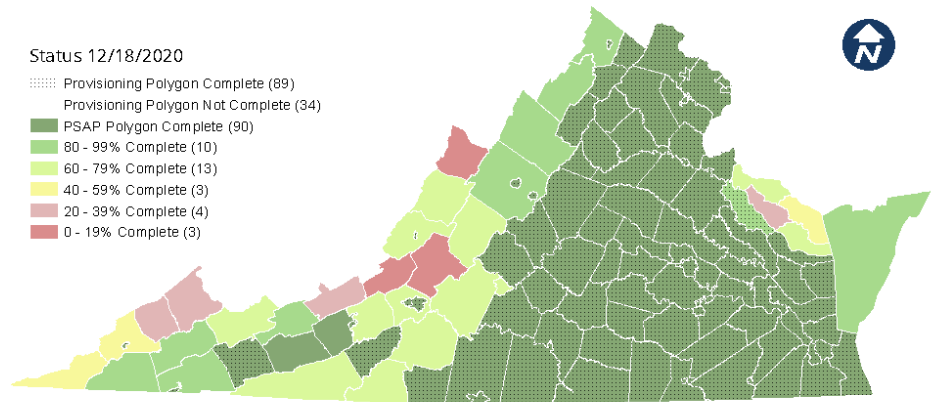
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0 75 150 300 Miles



Virginia State-Wide NG9-1-1 GIS Data Readiness Metrics

120,000

100,000

80,000

60,000

40,000

20,000

*3.7 Million GIS Address
points
637,000 GIS Road
centerlines*

	2018Q1	2018Q3	2019Q1	2019Q3	2020Q1	2020Q3
RCL Duplicate Ranges Attributes < 0	7,786	7,012	6,138	5,789	5,460	4,833
RCL Ranges Left Side Overlap	9,053	7,057	6,458	6,012	3,770	1,836
RCL Ranges Right Side Overlap	4,612	4,502	4,150	3,693	3,037	1,314
RCL Name Attributes < Standards	30,268	15,094	10,366	6,069	8,795	2,463
AP Duplicate or Missing Information	33,503	51,618	64,297	32,798	30,288	22,853
AP does not Geocode RCL Name and Range	40,631	41,289	31,143	27,553	21,967	18,590
AP Name Mismatch RCL Name	105,304	87,244	37,416	31,277	21,739	9,782

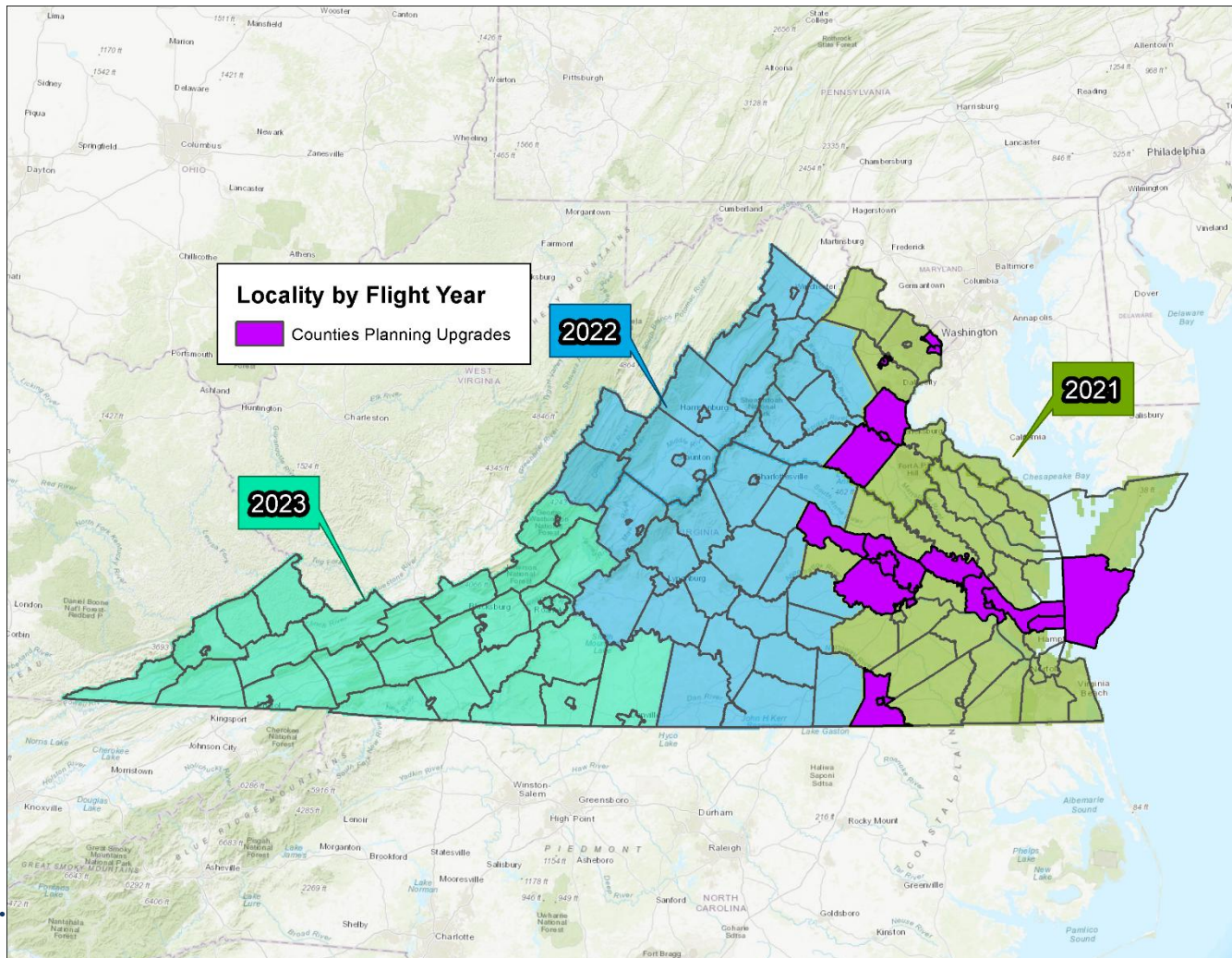


Virginia Base Mapping Program Orthoimagery

- Contract with Surdex Corporation / VA-200922-SURD
- Confirmation of Interest Deadline for 2021 flying season was December 15th, 2020
- Imagery for 58 Localities will be captured in February and March of 2021 – Eastern-third of the Commonwealth
- 21 Localities have expressed interest in resolution upgrades, Planimetric development, or both



Virginia Base Mapping Program Orthoimagery



Virginia GIS Clearinghouse

- Testing is currently ongoing with VGIN ArcGIS Server services on our new server.
- Hope to release the new VGIN ArcGIS Server URL within the next 2 weeks for everyone to switch over.
- Everyone will have one month to switch your connections over to our new URL before the old url is turned off.
- All imagery services will now be in one folder.



Regional Outreach

- Provides effective outreach for 9-1-1, geospatial coordination and technical assistance through the development and maintenance of collaborative relationships with local governments and regional organizations
- Support NGS goals and tasks for NG9-1-1 migration planning, communication, and implementation
- Significant work items: 9-1-1 outage and location accuracy assistance, informational sheets to provide PSAP/GIS and 9-1-1 education



Regional Coordinators

- Significant work items:
 - 9-1-1 outage and location accuracy assistance;
 - Updating informational sheets to provide PSAP/GIS and 9-1-1 education;
 - Creating a visual timeline guide of bureau activities;
 - Plan to review, revise and create best practice documents;
 - Support PSAP and GIS staff on the policies, plans and processes of the NGS Bureau and associated 9-1-1 Services Board and VGIN Advisory Board



NG9-1-1 Deployments

- 3 PSAPs have deployed full i3
- Continued focus on connectivity, GIS & CHE
- Deployment path forward (projected through Dec 2021):
 - Fairfax/Alexandria selective router region
 - Early readiness localities (about 7)
 - then Winchester/Fredericksburg,
Charlottesville/Farmville, Chester/Stuart,
High/Jefferson



Deployment Considerations

- Difficulty aligning all full i3 standard components including:
 - readiness of diverse redundant connectivity, data, hardware and software
 - availability of all vendor partners for scheduling testing and cut-overs
- Delays in scheduling operational readiness testing (ORT) and cut over dates affects the proposed deployment schedule



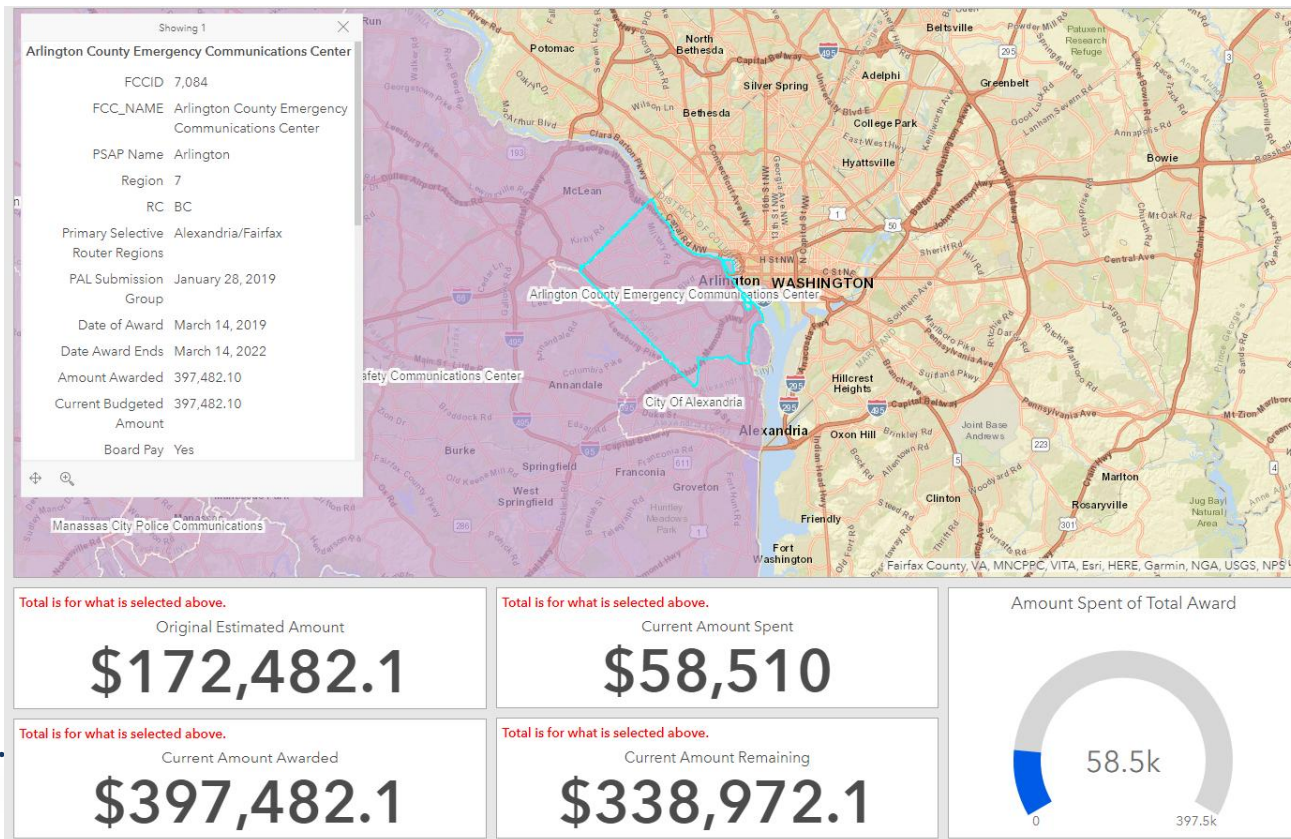
Current Deployment Budget

- Original Funding Estimate = \$55,348,197.32
- Current Funding Awards = \$58,993,653.32
 - 7 awards still outstanding = \$1,181,416.12
 - Final Funding Awards = \$60,175,069.44
- Connectivity Costs
 - Original Funding Allowance = \$25,347,581.05
 - 58% of PSAPs costs now known
 - Current Funding Updates = \$10,488,530.62
 - Current Savings = \$6,388,057.19



NG911 Dashboard Enhancements

- Adding financial data to show original estimate, current award, amount spent and amount remaining



Upcoming Meetings

- PSAP Grant Committee – Jan 7th
- VGIN Advisory Board Meeting – Jan 12th
- 9-1-1 Services Board Meeting – Jan 14th



Wrap Up

- Open Discussion/Questions
- Next Webinar is scheduled for February 24th

